Dear all,

so let us quickly summarize what we discussed yesterday plus some more comments/questions:

clarifications:
- print correction factors in 2 significant digits
- print also the table of Dm and Da
- print <1/pT> for data, MC and expectation
- can the binning be done such that eta=0.9 is at the bin boundary (e.g. 16 bins in eta)
- could you specify precisely by which resolution distribution exactly is the smearing done
- specify exact definition of Mmumu used for cross-checks and derivation of global scale (sometimes average is used and sometimes Breit-Wigner - can this be unified, show an example of Breit-Wigner fit)

systematics:
- how does the result depends on binning
- how does the result depend on the resolution (vary resolution smearing within uncertainty, use MuScle resolution instead of SIDRA)
- how does the result depend on pT spectra matching (difference between results with and without matching)
- check systematics with different PDFs, variations in ISR, FSR etc. (repeat systematics studies done by SIDRA/MuScleFit described in MUO-10-004, maybe Juan/Roberto can help here)

to be understood:
- understand why MuScleFit and SIDRA seem to give opposite Z mass bias for 2011 data (was checked with 2010 to be the same); maybe try to plot the fitted peak mass instead of average.

preliminary guidelines for MuScleFit/SIDRA activity by priority:
1) finish the process of MuScleFit correction studies for 2011 data with 42X including extension up to letal <2.4 and cross-check with Rochester
2) check how the biases and resolutions are similar with PF momentum and TuneP momentum assignment (would be interesting also to do this with Rochester method)
3) repeat the study for 44X mainly as a preparation for 2012 but also to compare with generalized endpoint results
4) apply corrections from 44X to 2012 data (52X) and adjust well in time so that corrections are available for summer conferences

Please add more questions/ideas or comment.

Thank you all for your interest and revival of the muon momentum scale/resolution studies. We have scheduled another talk by Arie/Jiyeon next Monday, it would be nice to have some of "clarifications" above covered depending on resources, of course. Please, keep us informed about your progress.